PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents Alexandria, VA USA

RECEIVED CENTRAL FAX CENTER

MAR 1 4 2005

Response to Official Action

RE: Application Serial No.: 10/658,277

Applicant:

Brian Wilson Varney

Title: HEAT EXCHANGER OPTIMIZATION PROCESS

AND

APPARATUS

Filed: September 10, 2003

Art Unit: 3744

Examiner: Jiang, Chen Wen Attorney Docket No.: 003-49

This is in response to the official action dated December 13, 1004.

Please amend the above identified application as follows:

Amendments to the claims are contained in the listing of claims which begins on page 2 of this paper. Five new claims are added, the fee for which is to be charged according to the accompanying transmittal papers.

Remarks/arguments begin on page 11 of this paper.

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Under the Pap	erwork Reduction Act of 1995	Application Number	10/658,277	The state of the s	BE(CEIVE	
TRANSMITTAL		Filing Date	September	10, 2003	CENTRAL		
FORM (to be used for all correspondence after initial filling) Total Number of Pages In This Submission		First Named Inventor	Brian Wilson	n Varney			
		Art Unit	3744	744		MAR 1 4 200	005
		Examiner Name	Jiang, Cher	Jlang, Chen Wen			
		Attorney Docket Numb	er 003-49	003-49			
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inted name	ANTHONY R. LAMBERT	Λ.					
ate	March 14, 2005		Reg, No.	32,813			
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	ANTHONY R I	AMBERT, REG. NO. 32,813, CUS	T. NO. 020212	Date	March 14, 2005		

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (12-04v2) Approved for use through 07/31/2008, OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Complete if Known Effective on 12/08/2004. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). 10/658,277 Application Number Filing Date September 10, 2003 For FY 2005 Biran Wilson Varney First Named Inventor HECEIVED Jiang, Chen Wen Examiner Name CENTRAL FAX CENTER Applicant claims small entity status. See 37 CFR 1.27 Art Unit 3744 003-49 TOTAL AMOUNT OF PAYMENT 125.00 Attorney Docket No. 1 4 2005 METHOD OF PAYMENT (check all that apply) Check Credit Card Other (please identify): None ✓ Deposit Account Deposit Account Number 12-0434 Deposit Account Name: For the above-identified deposit account, the Director is hereby authorized to: (check all that apply) Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee Charge any additional fee(s) or underpayments of fee(s) Credit any overpayments

under 37 CFR 1.16 and 1.17

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. FEE CALCULATION 1. BASIC FILING, SEARCH, AND EXAMINATION FEES EXAMINATION SEES **FILING FEES SEARCH FEES Small Entity** Small Entity 100.00 OP Fees Paid (\$) Fee (\$) Fee (\$) Fee (\$) **Application Type** Fee (\$) Fee (\$) Fee (\$) 300 500 200 150 250 92 1002202 Utility 25.00 OP 200 100 100 130 65 Design 50 200 100 300 150 160 RO Plant 600 300 150 500 250 300 Reissue 0 **Provisional** 200 100 0 Small Entity 2. EXCESS CLAIM FEES Fee (\$) Fee (\$) Fee Description Each claim over 20 (including Reissues) 50 25 200 100 Each independent claim over 3 (including Reissues) 360 180 Multiple dependent claims dent Claims Multiple Deper Fee Paid (\$) Total Claims Extra Claims Fee (\$) Fee Paid (\$) Fee (\$) - 20 or HP = HP = highest number of total claims paid for, if greater than 20. Extra Claims Fee (\$) Fee Paid (\$) Indep. Claims - 3 or HP = HP = highest number of independent dalms paid for, if greater than 3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Number of each additional 60 or fraction thereof Fee Pald (\$) Total Sheets Extra Sheets __ / 50 = (round up to a whole number) - 100 = Fees Paid (\$) 4. OTHER FEE(S) Non-English Specification, \$130 fee (no small entity discount) Other (e.g., late filing surcharge): SUBMITTED BY Registration No. 32,813 Telephone 780.448.7326 Signature (Attorney/Agent) Date March 14, 2005 Name (Print/Type) Anthony R. Lambert

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PAGE 2/8 * RCVD AT 3/14/2005 7:18:37 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-1/0 * DNIS:8729306 * CSID:7804335719 * DURATION (mm-ss):03-54

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